

MARVED-UP VERSION OF THE ORIGINAL SPECIFICATION

A Fishing Float for positioning, Detecting Fish Catch and Lighting

Field of the Invention

5 This invention ^{is} related to an ^{improved fishing} [improvement of fish] float, in particular, ^{the fishing float includes} [the] float base [is design] with a flat bottom [which keeps the float never returning to shore]. The bright light ^{emitted by the float shows the fisherman} [it emits] provides the fishing man an easy identification of [the float indicates] where the fish hook is and [accurately knowing] whether a fish is caught or not [without aid of the night vision light]

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Background of the Invention

[Fishing is one of the best leisure activities to cultivate the patience. The fishing man has to wait with long quiet patience the fish to bite the bait on the fish hook; it is dull and tasteless long waiting. At the moment the fish is being hooked, the exciting pleasure is beyond description, this is critical reason most people like fishing.]

The float and night vision light are necessities for [the] night fishing [even in pond fishing, sea fishing and river fishing] which ^{provides} ^{fisherman} the [fishing man] the indication of ^a fish catch [and lighting]. There are diverse floats and night vision lights available for use in fishing independently or in combination ^{thereof} for the ^{fisherman} [fishing man] to see clearly the response of float. However, most floats are designed with ^a round bottom, ^{which makes it waves} easy for the ^{the} [wave] to drive them back to ^a sea shore.

[For poor sight fishing man, ^{is not available} if the float is too far away and the night vision light ^a runs out], there is no advance warning signal to indicate whether [the] fish is [being] caught or not, he losses the chance in vain. Furthermore, the [waste] night vision light ^{uses batteries that are difficult} [is hard] to dispose of, ^{and this} [it] becomes an environmental problem. [Since the ^{The} prior art ^a of [induced] float is unable to ^{without} provides positioning and identification of fish catch [it requires] the aid of the night vision light. [Because these two are used independently, not in combination, no way to satisfy the desire the fishing man asks for, there is room for improvement.]

Summary of Invention

The main object of this invention is to provide a float for easy positioning and bright lighting to reveal an early signal of ^{an} fish catch without the aid of ^{the} night vision light. The main improvement is to add to the float ^{the} inductive device and the lighting device along with ^a base and ^a top lid. The inductive device comprises ^{an} inductive circuit board, ^{an} inductive coil, ^{an} inductive shaft and ^a ^{the} spring. ^{The} lighting device contains the light circuit board, ^a plurality of LEDs and ^a pedestal. The base bottom is a flat design. This combination is suitable for pond fishing and sea fishing. Because the flat bottom always keeps ^{the waves do not drive the float} the float at a fixed place, ^{never} permitting the wave to drive back to shore. ^{When} ^{bites} the fish ^{is biting} the bait, ^(attached to a hook and line connected to the float) the inductive shaft is ^{being} pulled down and ^{this action} ^{causes the inductive coil to leave its} leaves the induced range of the inductive coil. At this instant, the central LED emits ^{the} red light and the ^{outer-} LEDs continue ^{to emit} the blue light. In other words, if ^{the fish is not} not fish biting, ^{there is} only ^{the} blue light ^{is} visible, ^{and} no red light ^{is visible} at all. The flat bottom design and the change of light colors (a combination of blue light with the red light) serve ^{as} a warning signal ^{showing} the moment a fish ^{is biting} bites the bait on the fish hook. ^{It also works as the lighting source.}

The invention is explained in great detail with the aid of embodiments as illustrated in the attached drawings.

Brief Description of Drawing

- Fig. 1 shows ^{an exploded view} the disassembly of the float of this invention.
Fig. 2 shows ^{a partially exploded view} the enlarged disassembly of the float of this invention.
25 Fig. 3 shows ^{a schematic view} the appearance of the ^{assembled} complete assembly of the float of the invention.

^{Detailed} [Detail] Description of the Invention

^{The float}

Please refer to Figs. 1 and 2 the float (1) consists of a base (10), a top lid (20),

a lock bolt (30), a waterproofing washer (40), a battery compartment (50), a lighting device (60) and an inductive device (70). [In which ^{the} base (10) ^{includes a} round ^{housing} separated into ^{an} empty compartment (101). ^A The central hollow post (102) forms a connecting rod (103) at the lower end. ^{of the central hollow post (102)} [Of the base (10) ^{to link the} ^{is linked to the} inductive coil (702). The lock bolt (30) has ^{an} inner thread to be locked on ^{of the base} but thread ^{to} of the connecting rod (103). Because the ^{tends to float} base bottom is a flat design, it ^{and is unaffected by sea waves} is always keeping floating at a fixed place on the seas away from the sea shore].

The top lid (20) is a round casing made of the transparent material so ^{that} the red lights or the blue lights emitted from the ^{Light Emitting Diodes} LEDs (602) of the lighting device (60) are ^{visible} [visible] clearly.

[The lock bolt (30) has the inner thread to be locked on the connecting rod (103).]

15 The ^{waterproof} [waterproofing] washer (40) sits between the top lid (20) and the base (10) to keep the water from entering into the base. ⁽¹⁰⁾

The battery compartment ^{for a battery} (50) is housed in the space formed by the top lid (20) and the base (10). ^{A (not shown)} [The battery] is the power source for the lighting device (60) and the inductive device (70).

The lighting device (60) is mounted on ⁽⁶⁰⁾ [the] top of the battery compartment (50). The lighting device ⁽⁶⁰⁾ comprises the lighting circuit board (601), ^[a plurality of] LEDs (602) and the pedestal (603). The lighting circuit board (601) ^{is linked to the} [links] a plurality of LEDs (602) in two colors, red and blue. The central protruded LED is red which is ^{only} activated ^{when a} [while the] fish ^{pulls at bait attached to the float device via a hook} is biting. ^{Blue} [The blue] LEDs surround the red LED ^{serving the lighting}. The pedestal (603) has a plurality of holes (604) permitting the LEDs (602) ^{to extend} [extending] out of the holes (604) so the red ^{and} or blue lights are ^{from transparent} visible outside of the top lid (20).

The inductive device (70) is placed under the battery compartment (50), consisting of ^{an} inductive circuit board (701), ^{an} [the] inductive coil (702), [the] ^{an} inductive shaft (703) and spring (704).

5 The circuit board (701) is housed in the empty compartment (101) in the base (10). The inductive coil (702) encircles the central post (102). The inductive shaft (703), the spring (704) and the connecting rod (103) will be held together by the lock bolt (30) but one end of the inductive ^{shaft (703)} [704] will extend out of the lock bolt (30) but ^{it is prevented} [prevent them] from falling ^{out of} [off] the lock bolt (30). The size ^{or type} of the spring (704) ^{is commensurate} [shall be inline] with the ^{of the fish} [catch fish] weight the ^{fisherman} [fishing man] intends to catch. The ^{outer end of} connecting rod (703) ^{as shown in Figs. 2 and 3} [links to the] ^{hook and bait} hook and bait.

As shown in Fig. 3, ^{the} this float (1) ^{is easily visible and floats at a stationary position} [of this invention renders easy positioning, identifying the fish catch and lighting]

15 In practice, the float (1) of this invention ^{tends to float} [is always floating] at a fixed place ^{and is not easily pushed by the waves to the} [on] the seas away from the sea shore. ^{if} [While] the fish ^{bites} [is biting] the ^{bait} [bait] on the hook, ^{secured to an end of the inductive shaft (703) by a line} the inductive shaft (703) is ^{downwards} [being] pulled [down] from the inductive device (70), and leaves the induced range of the inductive coil (702). The central LED (602) on the lighting device (60) ^{than emit} will ^{LED} [emit] the red light ^{blue} and the ^{LEDs} [LEDs] [(602)] surrounding the lighting device (60) will continue emitting blue light. If no fish ^{only} ^{will light} [is biting, no red except] the blue [light from the] LEDs (602) of the lighting device (60). Since the base (10) is designed with ^a [the] flat bottom, it is always buoyed up at a fixed place away from the [sea] shore. The different light combination 25 (blue lights plus red light) ^{gives the fisherman visible warning signals} [coming out] of the LEDs (602) of the lighting device (60) [give the fishing man a advanced warning signal indicating the fish is biting or the necessary lighting in the dark]

[Viewing from the above statement, it is learned that the float provided in this 30 invention for easy positioning, identifying the fish catch and lighting is a technical break through, an vital improvement from the prior art. It is simple,

practicable, and innovative, justified for the grand of new patent.